PROJ. REFERENCE NO.	SHEET NO.
P-4900A	TMP-2

SHORING LOCATION NO. 1

FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.

BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.

DESIGN TEMPORARY SHORING FROM STATION -Y1-, STA 21+83.3± 24.6 FT LT, TO STATION -Y1-, STA 22+51.6±24.6 FT LT. FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUND-WATER ELEVATION:

GROUNDWATER ELEVATION = 164 FT±

SOIL PARAMETERS ABOVE ELEVATION 150′
UNIT WEIGHT (γ) = 120 LB/CF
FRICTION ANGLE (ϕ) = 30 DEGREES
COHESION (c) = 0 LB/SF

SOIL PARAMETERS ABOVE ELEVATION 150′ AND ELEVATION 137′
UNIT WEIGHT (g) = 120 LB/CF
FRICTION ANGLE (f) = 0 DEGREES
COHESION (c) = 250 LB/SF

SOIL PARAMETERS ABOVE ELEVATION 137′
UNIT WEIGHT (g) = 120 LB/CF
FRICTION ANGLE (f) = 27 DEGREES
COHESION (c) = 0 LB/SF

DESIGN TEMPORARY SHORING FOR AN UNBALANCED HYDROSTATIC PRESSURE EQUAL TO THE DIFFERENCE BETWEEN THE GROUNDWATER ELEVATION AND THE BASE OF THE EXCAVATION UNLESS A FULLY FUNCTIONAL WELL POINT DEWATERING SYSTEM HAS BEEN PROVIDED OUTSIDE THE TEMPORARY SHORING. THE COSTS OF THE OPTIONAL WELL POINT SYSTEM SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE FOUNDATION EXCAVATION.

SHORING LOCATION NO. 2

FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.

BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.

DESIGN TEMPORARY SHORING FROM STATION -Y1-, STA 21+53.7± 24.6 FT RT, TO STATION -Y1-, STA 22+21.1±24.6 FT RT. FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

GROUNDWATER ELEVATION = 164 FT ±

SOIL PARAMETERS ABOVE ELEVATION 149′
UNIT WEIGHT (γ) = 120 LB/CF
FRICTION ANGLE (ϕ) = 30 DEGREES
COHESION (c) = 0 LB/SF

SOIL PARAMETERS ABOVE ELEVATION 149′ AND ELEVATION 139′
UNIT WEIGHT (g) = 120 LB/CF
FRICTION ANGLE (f) = 0 DEGREES
COHESION (c) = 250 LB/SF

SOIL PARAMETERS ABOVE ELEVATION 139′
UNIT WEIGHT (g) = 120 LB/CF
FRICTION ANGLE (f) = 27 DEGREES
COHESION (c) = 0 LB/SF

DESIGN TEMPORARY SHORING FOR AN UNBALANCED HYDROSTATIC PRESSURE EQUAL TO THE DIFFERENCE BETWEEN THE GROUNDWATER ELEVATION AND THE BASE OF THE EXCAVATION UNLESS A FULLY FUNCTIONAL WELL POINT DEWATERING SYSTEM HAS BEEN PROVIDED OUTSIDE THE TEMPORARY SHORING. THE COSTS OF THE OPTIONAL WELL POINT SYSTEM SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE FOUNDATION EXCAVATION.

THE TEMPORARY SHORING NOTES SHOWN ON THIS SHEET WERE PROVIDED THROUGH SEALED DOCUMENTS FROM THE GEOTECHNICAL ENGINEERING UNIT. THE DOCUMENTS WERE SUBMITTED TO THE WZTC SECTION ON JANUARY 14, 2015 AND SEALED BY PROFESSIONAL ENGINEER, MICHAEL VALIQUETTE, P.E., LICENSE # 32672.

APPROVED: DocuSigned by: Rhonda Early DATE: 1/19/2015

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 023521 ENGINEER RHONDA B. EARLY

HNTB

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DIVISION OF HIGHWAYS * STATE OF NORTH CAROLINA * DEPARTMENT OF TRANSPORTATION * WORK ZONE TRAFFIC CONTROL

TRANSPORTATION MANAGEMENT PLAN

TEMPORARY SHORING NOTES

REVISIONS

8/17/99

QA/QC STAGE:

REVIEW:
CONCUR:
REVISE:
VERIFY:

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